

dimensional programmable cell architecture, the processing unit including a plurality of re-programmable, dynamically reconfigurable cells;

a first bus positioned within the processing unit; and

at least one interface unit coupled to the first bus, the first bus providing communication, via the at least one interface unit, between the processing unit and at least one of: i) an additional processing unit, ii) a memory device, and iii) a peripheral device.

Remarks

I. INTRODUCTION

Claims 19 and 20 have been canceled, without prejudice. Claims 39-55 have been added. Claims 21-55 are now pending in the present application. Claims 21, 23-27, 30, 34, 37 and 38 have been amended to be rewritten in independent form. Claims 35 and 36 have been amended to depend from claims 37 and 38, respectively. No new matter has been added.

II. CLAIMS 21-34, 37 AND 38

Applicants gratefully acknowledge the Examiner's indication that claims 28, 29 and 31-33 are allowable. Additionally, Applicants gratefully acknowledge the Examiner's indication that claims 21-27, 30, 34, 37 and 38 are objected to as being dependent upon a base claim, but would be allowable if rewritten in independent form. Applicants have amended claims 21, 23-27, 30, 34, 37 and 38 to be rewritten in independent form. Claim 22 depends from claim 21. Accordingly, claims 21-27, 30, 34, 37 and 38 are now in condition for allowance.

III. REJECTION OF CLAIMS 19, 20, 35 AND 36 UNDER 35 U.S.C. § 103

Claims 19, 20, 35 and 36 stand rejected under 35 U.S.C. § 103 as being obvious over U.S. Patent No. 4,852,048 to Morton in view of U.S. Patent No. 5,659,797 to Zandveld et

a1. Claims 19 and 20 have been canceled, without prejudice, in order to expedite allowance of the present application. Claims 35 and 36 have been amended to depend from claims 37 and 38, respectively. Accordingly, the rejection of claims 19, 20, 35 and 36 is now moot.

IV. NEW CLAIMS 39-55

New claims 39-55 have been added and are fully supported by the specification. No new matter has been added.

V. CONCLUSION

In light of the foregoing, Applicants respectfully submit that all pending claims are in condition for allowance. Prompt reconsideration and allowance of the present application are therefore earnestly solicited.

The Examiner is invited to contact the below-named attorney for any issues outstanding in the above-identified application.

Respectfully submitted,

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